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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,916	11/24/2003	Virgil Cotoco Ararao	27-006	6546
22898 7:	590 08/30/2005		EXAM	INER
THE LAW OFFICES OF MIKIO ISHIMARU			NGUYEN, THANH T	
1110 SUNNYVALE-SARATOGA ROAD SUITE A1 SUNNYVALE, CA 94087			ART UNIT	PAPER NUMBER
			2813	

DATE MAILED: 08/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicant(a)			
	Application No.	Applicant(s)			
	10/721,916	ARARAO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Thanh T. Nguyen	2813			
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CI after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a in. a reply within the statutory minimum of thir eriod will apply and will expire SIX (6) MON statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) ⊠ Responsive to communication(s) filed on 2 2a) □ This action is FINAL . 2b) ⊠ 3) □ Since this application is in condition for all closed in accordance with the practice uncertainty.	This action is non-final. owance except for formal mat				
Disposition of Claims					
4) Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) 11-20 is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and application Papers	ndrawn from consideration. Ind/or election requirement.				
·	The specification is objected to by the Examiner.				
	The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the co	•				
11) The oath or declaration is objected to by the	· · · · · · · · · · · · · · · · · · ·				
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in A priority documents have beer ureau (PCT Rule 17.2(a)).	Application No received in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview	Summary (PTO-413)			
 2) Notice of Preferences Gled (170-032) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 11/24/03. 	8) Paper No	s)/Mail Date Informal Patent Application (PTO-152)			

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DETAILED ACTION

Election/Restrictions

Applicant's election of group I, claims 1-10 in the reply filed on 6/21/05 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 11-20 are withdrawn from further consideration by the examiner, 37 C.F.R. 1.142(b) as being drawn to a non-elected invention.

Information Disclosure Statement

The information disclosure statement filed on 11/24/03 has been considered.

Oath/Declaration

Oath/Declaration filed on 11/24/03 has been considered.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Hawthorne et al. (U.S. Patent No. 6,008,991).

Referring to figures 3-4, 9-11, Hawthorne et al. teaches a method for fabricating a semiconductor heat spreader, comprising:

providing a unitary metallic plate (see figures 9-10); and

forming the unitary metallic plate into:

a panel(68/114);

channel walls depending from the panel (68/114) to define a channel (44/110) between the channel walls and the panel for receiving a semiconductor therein (see figures 3-4, 9-10); at least two feet (70, see figures 3-4, 9-10) extending from respective channel walls for attachment to a substrate (138); and

at least one external reversing bend (72a/72b/116/118/146/148, see figures 4, 9-10).

2. the feet are selected from an arched foot, a stand-off foot, a slotted stand-off foot, a toed foot, a stand-off toed foot, a flat foot, a slotted flat foot, a zigzag foot, a box foot, and a combination thereof (70, see figures 3-4, 9-10).

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3. forming the feet to accommodate respective set volumes of adhesive therebeneath for

attaching the semiconductor heat spreader to a substrate (63/112, called conductive lead

lamination).

4. forming an electromagnetic interference shield for the channel (114, so that the magnetic field

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won't able to go through the metal shield).

5. providing an additional unitary metallic plate (128/150); and

forming the additional unitary metallic plate into a unitary auxiliary heat spreader configured for

attachment on top of the semiconductor heat spreader (see figures 9-10).

6. forming attachment means for attaching the unitary auxiliary heat spreader to the

semiconductor heat spreader, the attachment means being selected from tabs, locking tabs,

deformable sides, side ledges, side clips, clip bosses, center clips, side arms, and a combination

thereof (legs, 124/126/158/160).

7. forming the unitary metallic plate further comprises forming the unitary metallic plate in

substantially a single metal forming process to also form an integral auxiliary heat spreader

located on top of the panel (see figures 4, 9, 10).

8. forming the unitary metallic plate further comprises forming the unitary metallic plate in

substantially a single metal forming process into a cross-sectional profile that is substantially

constant in at least one horizontal direction (see figures 4, 9-10).

Noted that references (Tosaya et al. U.S. Patent No. 6,538,320, and Ommen et al. (U.S. Patent

No. 5,397,917) also teaches all of the limitations as described in claims 1-10.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Nguyen whose telephone number is (571) 272-1695, or by Email via address Thanh.Nguyen@uspto.gov. The examiner can normally be reached on Monday-Thursday from 6:00AM to 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, can be reached on (571) 272-1702. The fax phone number for this Group is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956 (See MPEP 203.08).

Thanh Nguyen
Patent Examiner

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Patent Examining Group 2800

TTN